

Form Approved OMB No. 2010-0019 Approval Expires 12-3



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Comprehensive Assessment Information Rule REPORTING FORM

90-930000008



Myeu	compl	eted,	send	this	form	to:
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Docket Number:

EPA Form 7710-52

2,6 7121

91-53-7

PART A	GENERAL REPORTING INFORMATION
1.01 T	his Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
: <u>:3:</u>	empleted in response to the Federal Register Notice of T Z [Z Z] R Register Notice of
[_] a	. If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
~	Register, list the CAS No
Ъ	. If a chemical substance CAS No. is not provided in the Federal Register. list either (i) the chemical name. (ii) the mixture name. or (iii) the trade name of the chemical substance as provided in the Federal Register.
	(i) Chemical name as listed in the rule (NA)
	(ii) Name of mixture as listed in the rule
	(iii) Trade name as listed in the rule
c	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
	Name of category as listed in the rule
	CAS No. of chemical substance [_]_]_]_]_]_]_]_[_]_
	Name of chemical substance
•	dentify your reporting status under CAIR by circling the appropriate response(s).
	anufacturer
	nporter
Pr	ocessor Reporting Status Is Processor
X/	P manufacturer reporting for customer who is a processor
X/	P processor reporting for customer who is a processor
•	
_ Mar	k (X) this box if you attach a continuation sheet.

1.07 <u>CBI</u>	Exemptions From Reporting If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.							
	"I hereby certify that, to the information which I have not i to EPA within the past 3 years period specified in the rule."	included in a	this CAIR Reporting Fo	orm has been submitte				
	NAME		SIGNATURE	DATE SIGNED				
	TITLE	_ ()	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION				
<u>CBI</u>	"My company has taken measures and it will continue to take to been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial prinformation is not publicly aw would cause substantial harm to	these measure by other per than discover proceeding) wailable else	es; the information is ersons (other than govern ery based on a showing without my company's ewhere; and disclosure	s not, and has not vernment bodies) by g of special need in consent; the e of the information				
	NAME	_	SIGNATURE	DATE SIGNED				
	TITLE		TELEPHONE NO.	<u> </u>				

1.1-	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]
! _ :	wailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	(NA) (=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1
`	_ _ _ _ _ _ _ _ _ _
	Employer ID Number
	Date of Sale
	Contact Person []]]]]]]]]]]]]]]]]]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
<u> </u>	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[]
	Employer ID Number
	Date of Purchase
	Contact Person []]]]]]]]]]]]]]]]]]
	Telephone Number
<u> </u>	ark (X) this box if you attach a continuation sheet.

17	Mixture If the listed substant or a component of a mixture, providentical. (If the mixture compo- each component chemical for all	vide the following information is variable, repo	rmation for each component
<u>-</u>	Component Name	Supplier Name	Average % Composition by Weight (specify precision, e.g., 45% = 0.5%)
	2.6-To'vene Diiscovanute	Stepan Co.	78%
	2,4- Toluene Dissocyanate	Stepan Co.	74%
	("U.K.")	Stepan Co.	8%

Total

^[] Mark (X) this box if you attach a continuation sheet.

2.76 <u>CBI</u>	appropriate process t	•		
	Continuous process .		•••••	••••••
	Semicontinuous proces	s	•••••	• • • • • • • • • • • • • • • • • • • •
	Batch process		•••••	••••••
.07 BI	State your facility's substance. (If you as question.)	name-plate capacity free a batch manufacture	or manufacturing or processor.	rocessing the lis do not answer th
_,	Manufacturing capacity	7	·····	<i>NA</i> k
	Processing capacity		····· <u> </u>	(kg
.08	If you intend to incremanufactured, imported	ease or decrease the q	time after your curre	ent corporate fis
<u> 31</u>	year, estimate the inc	rease or decrease bas	ed upon the reporting	year's production
		Hanufacturing Quantity (kg)	ed upon the reporting Importing Quantity (kg)	Processing
_		rease or decrease bas Manufacturing	Importing	Processing
	volume.	Hanufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg
_	Amount of increase	Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg
_	Amount of increase	Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg
_	Amount of increase	Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg
	Amount of increase	Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg
_	Amount of increase	Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg
BI 	Amount of increase	Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg

CAS No.	Chemical Name	Byproduct, Coproduct or Impurity	Concentration (%) (specify = % precision)	Source of products. products. Impuriti
584-84-4	1,4-Toluene Dissocyonate	<u> </u>		Raw Ma
		,	<u> </u>	
Use the fo	llowing codes to designate	byproduct, copro	oduct, or impurit	у:
B = Byprod C = Coprod	uct			
I = Impuri	A			

}	import, or process using the listed subscorporate fiscal year. For each use, spinport, or process for each use as a persubstance used during the reporting year used captively on-site as a percentage of types of end-users for each product type explanation and an example.)	centarion Al.	the quantity you ge of the total vi so list the quant value listed und	expect to manu olume of listed ity of listed s er column b a
	a. 5.		٠.	‡.
	% of Quantity Manufactured. Imported. or Product Types Processed		% of Quantity Used Captively On-Site	Type of End
			0%	
			•	
				
				_
	· · · · · · · · · · · · · · · · · · ·			
	Use the following codes to designate pr A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/	L: M: N: O: P: Q: R: S: V: V:	= Moldable/Castable = Plasticizer = Dye/Pigment/Cold = Photographic/Reg and additives = Electrodeposition = Fuel and fuel accept to the second properties = Fragrance/Flavor = Follution control = Functional fluid = Metal alloy and = Rheological mode = Other (specify)	prant/Ink and a prographic chem on/Plating chem iditives hals and additi- r chemicals of chemicals is and additive additives ifier
	A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/	L: N: N: O: P: Q: R: V: V: V: es X: e type	= Moldable/Castable = Plasticizer = Dye/Pigment/Cold = Photographic/Reg and additives = Electrodeposition = Fuel and fuel accept to the second position = Fragrance/Flavor = Follution control = Functional fluid = Metal alloy and = Rheological mod: = Other (specify) = of end-users:	prant/Ink and a prographic chem on/Plating chem iditives hals and additi- r chemicals of chemicals is and additive additives ifier
	A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/	L: N: N: O: P: Q: R: V: V: V: es X: e type	= Moldable/Castable = Plasticizer = Dye/Pigment/Colo = Photographic/Reg and additives = Electrodepositio = Fuel and fuel ac = Explosive chemic = Fragrance/Flavor = Pollution contro = Functional fluid = Metal alloy and = Rheological mod: = Other (specify) = of end-users:	prant/Ink and a prographic chem on/Plating chem iditives hals and additi- r chemicals of chemicals is and additive additives ifier
	A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/	L: N: N: O: P: Q: R: V: V: V: es X: e type	= Moldable/Castable = Plasticizer = Dye/Pigment/Cold = Photographic/Reg and additives = Electrodeposition = Fuel and fuel accept to the second position = Fragrance/Flavor = Follution control = Functional fluid = Metal alloy and = Rheological mod: = Other (specify) = of end-users:	prant/Ink and a prographic chem on/Plating chem iditives hals and additi- r chemicals of chemicals is and additive additives ifier

2.15 <u>CBI</u>	liste	e all applicable modes of transportation used to deliver bulk shipments of d substance to off-site customers.	
(\square)			
	Railc	ar	• •
		. Vessel	
		ine	
	Plane		
	Other	(specify)	• -
2.16 CBI	or pr of en	mer Use Estimate the quantity of the listed substance used by your customerepared by your customerepared by your customered duse listed (i-iv). Only of End Use	gory
	<u> </u>	Industrial Products	
		Chemical or mixture	kg
		Article	kg
	ii.	Commercial Products	
		Chemical or mixture	kg
		Article	_ kg
	iii.	Consumer Products	
		Chemical or mixture	_ kg
		Article	_ kg
	iv.	Other	
		Distribution (excluding export)	– kg
		Export	_ kg
		Quantity of substance consumed as reactant	– kg
		Unknown customer uses	_ kg

	_
	Bags
	Boxes
	Free standing tank cylinders
	Tank rail cars
	Hopper cars
	Tank trucks
	Hopper trucks
	Drums
	Pipeline
	Other (specify) <u>Metal Cans</u>
b.	If the listed substance is transported in pressurized tank cylinders, ta cars, or tank trucks, state the pressure of the tanks. Tank cylinders
	Tank rail cars
	Tank rail cars

reporting year in the form of a class I chemical, class II chemical, or polymer, a the percent composition, by weight, of the listed substance.							
	Quantity Used (kg/yr)	<pre>% Composition t</pre>					
Class I chemical		18%					
Class II chemical							
Polymer							
•							

GENERAL ELECTRIC COMPANY 600 MAIN STREET NY 13790 JOHNSON CITY

NF 00956 01

DATE: 03/02/90 CUST # 39795-701 P.O.# 34929 PRODUCT NAME: STEPANFOAM BH-614-T PRODUCT NUMBER: 188478 ******************************** ŝ EMERGENCY INFORMATION STEPAN COMPANY MEDICAL: 1-800-228-5635 NORTHFIELD, IL. 60093 1-800-424-9300 CHEMTREC: (708) 446-7500 ************************************ ********************************** SECTION I: GENERAL INFORMATION PRODUCT NAME: STEPANFOAM BH-614-T PRODUCT NUMBER: 188478 PRODUCT CLASS: TOLUENE DIISOCYANATE. PRECAUTIONS: 'POISON. REFER TO BILL OF LADING OR CONTAINER LABEL FOR DOT OR OTHER TRANSPORTATION HAZARD CLASSIFICATION, IF ANY. ******************************** SECTION II: HAZARDOUS INGREDIENTS ***************************** ACGIH TLV OTHER OSHA PEL INGREDIENT (CAS ♥) (PPM) (CONTINUED)

MATERIAL SAFETY DATA SHEET

PAGE:

NF 00956 01

MATERIAL SAFETY DATA SHEET

DATE: 03/02/90

CUST # 39795-701

P.O.# 34929

PRODUCT NUMBER: 188478

PRODUCT NAME: STEPANFOAM BH-614-T

PAGE:

INCOMPATABILITY (MATERIALS TO AVOID):

STRONG OXIDIZING AGENTS

WATER, ALCOHOLS, AMINES, ALKALIES, METAL COMPOUNDS (CATALYSTS)

HAZARDOUS DECOMPOSITION PRODUCTS:

CYANIDES AND AMMONIA MAY BE FORMED.

EFFECTS OF OVEREXPOSURE/EMERGENCY AND FIRST AID PROCEDURES

EYES: CONTACT WITH EYES IS PAINFUL AND IRRITATING.
FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST
15 MINUTES.

SKIN: PROLONGED OR REPEATED CONTACT WITH SKIN CAUSES IRRITATION WASH OFF SKIN WITH WATER. REMOVE CONTAMINATED CLOTHING / CLEAN BEFORE REUSE.

INHALATION: MAY CAUSE RESPIRATORY SENSITIZATION AND IRRITATE SKIN, EYES AND RESPIRATORY TRACT WITH POSSIBLE PERMANENT DECREASE IN LUNG FUNCTION. MAY AGGRAVATE ASTHMA OR OTHEF PRE-EXISTING RESPIRATORY CONDITIONS.

INGESTION: IF SWALLOWED, CONSULT A PHYSICIAN IMMEDIATELY.

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:
CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE TO THIS PRODUCT INCLUDE ASTHMA; OTHER RESPIRATORY
DISORDERS (BRONCHITIS, EMPHYSEMA, BRONCHIAL HYPERREACTIVITY),
SKIN ALLERGIES, ECZEMA. UNNECESSARY EXPOSURE TO THIS PRODUCT
OR ANY CHEMICAL SHOULD BE AVOIDED.

IF ANY SYMPTOMS PERSIST, CONSULT A PHYSICIAN.

IN A NATIONAL TOXICOLOGY PROGRAM (NTP) STUDY, TDI WAS CARCINO-GENIC WHEN GIVEN DRALLY TO RATS AND MICE AT MAXIMUM TOLERATED DOSES. TDI WAS NOT CARCINOGENIC TO RATS IN A TWO-YEAR INHALATISTUDY.

SEE SECTION II FOR HAZARDOUS INGREDIENTS PRESENT IN THIS PRODU AND THEIR CORRESPONDING THRESHOLD LIMIT VALUES.

FOR ADDITIONAL MEDICAL INFORMATION, CALL 1-800-228-5635

CONTAIN ALL SPILLS AND LEAKS TO PREVENT DISCHARGE INTO THE ENVIRONMENT.

VENTILATE AREA.

00956 01

MATERIAL SAFETY DATA SHEET

DATE: 03/02/90 CUST # 39795-701 P.O.# 34929
PRODUCT NUMBER: 188478 PRODUCT NAME: STEPANFOAM BH-614-T

PAGE:

THIS DATA SHEET HAS BEEN ASSEMBLED BY THE MANUFACTURER BASED ON ITS OWN STUDIES AND ON THE WORK OF OTHERS. THE MANUFACTURER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, OR ADEQUACY OF THE INFORMATION CONTAINED HEREIN. THE MANUFACTURER SHALL NOT BE LIABLE (REGARDLESS OF FAULT) TO THE VENDEE'S EMPLOYEES, OR ANYONE FOR ANY DIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE ACCURACY, COMPLETENESS, ADEQUACY, OR FURNISHING OF SUCH INFORMATION.

(R) REGISTERED TRADEMARK OR APPLICATION PENDING.

Physica. State	ı (NA)	Manufacture	Import	Process	Store	Disposa	Transo
Dust	<pre><1 micron</pre>				31016	bispose	<u>. ransp</u>
	1 to <5 microns						
	5 to <10 microns						
Povder	<1 micron						
	1 to <5 microns						
	5 to <10 microns						
Fiber	<1 micron						
	1 to <5 microns						
	5 to <10 microns						
Aerosol	<1 micron						
	1 to <5 microns						
	5 to <10 microns						

	a.	Specify the half-life of the	listed substance	in the fol	loving media	•
		<u> Media</u>	<u>Ha</u>	lf-life (s	pecify units	2
		Groundwater	('' U.K.'')		
		Atmosphere	<u></u>	"U.K.")		
		Surface vater	('	'U.K.")		
		Soil	C'	'U.K.")		
•	b.	1/6: ab 1/ bases	("U.K.")	Half-life		
		CAS NO.	ivaline (5)	pecify uni	in	Media
				· · · · · · · · · · · · · · · · · · ·		
					in	
					in	
5.03		eify the octanol-water partition of calculation or determinate			("U.C")	at 2:
5.04		ify the soil-water partition of type			("1,(")	at 25
5.05	Spec	ify the organic carbon-vater pricient, Koc	partition		("U.K.")	at 25
			Н		("U.K.")	atm-m³/mc

	Market	Quantity Sold or Transferred (kg/yr)	Total SalesValue (S/yr)
	Retail sales	•	
	Distribution Wholesalers		
	Distribution Retailers	<u> </u>	
	Intra-company transfer		
	Repackagers		
	Mixture producers		
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		-
 5	Substitutes List all known commercia	ally feasible substitu	tes that you know
 5	Substitutes List all known commerciator the listed substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses.	cost of each substitue control on and technol	te. A commercial ogically feasible
5	for the listed substance and state the feasible substitute is one which is ec- in your current operation, and which re	cost of each substitue control on and technol	te. A commercial ogically feasible uct with comparab
5	for the listed substance and state the feasible substitute is one which is economic in your current operation, and which reperformance in its end uses.	cost of each substitue control on and technol	te. A commercial ogically feasible
5	for the listed substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses. Substitute	cost of each substitue control on and technol	te. A commercial ogically feasible uct with comparab
5	for the listed substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses. Substitute	cost of each substitue control on and technol	te. A commercial ogically feasible uct with comparab
5	for the listed substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses. Substitute	cost of each substitue control on and technol	te. A commercial ogically feasible uct with comparab
5	for the listed substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses. Substitute	cost of each substitue control on and technol	te. A commercial ogically feasible uct with comparab
5	for the listed substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses. Substitute	cost of each substitue control on and technol	te. A commercial ogically feasible uct with comparab

General Instructions:

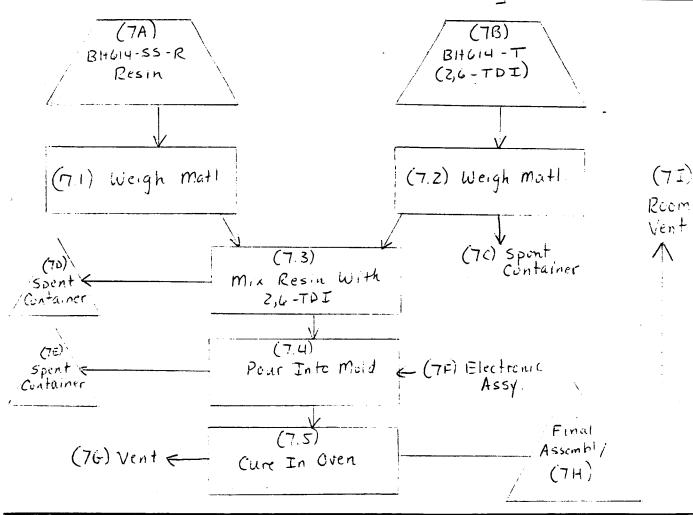
For questions 7.04-7.06, provide a separate response for each process block flow diagraprovided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing to major (greatest volume) process type involving the listed substance.

CBI

[] Process type Encapsulation / Potting



(-)	Process type	Encaps	sulating / Pot	ting	
	Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composi:
	7.1	Paper Cup	Room	Room	Paper
	7,2	Paper Cup	Room	Room	Paper
	7.3	Paper Cup	Room	Room	Pape
	77.4	moid	Room	Room	RTV A
	7.5	Oven	1100=50	Room	57001
					•
					. —
5					
			-		-
				•	
			÷		

7.06 CBI	If a process	e each process stream id s block flow diagram is on and complete it separ s for further explanatio	provided for mately for each	ore than one prod process type.	flow diagram(s) cess type, photoc (Refer to the							
	Process type Encapsulating / Potting											
	a.	b.	c.	. — d.	ė.							
	Process Stream ID Code	Known Compounds 1	Concen- trations ^{2.3} (% or ppm)	Other Expected Compounds	Estimated Concentration (% or ppm)							
	7A	BH-614-55-R	100%	None	NA							
	78	B1+-614-T	100%	2,6-TDI								
				2,4-TDI	74%							
	7C_	BH-614-T	100%	2,6-TDI	18%							
				2,4-TDI	74%							
	70	Mixed Resin	100%	None	NA							
	7E	Solidified Resin	100%	Ammonia	("V.K.")							
	7F	NA	NA	NA	NA							
	76	Isocyanates	("U K.")	NA	NA							
		Ammonia	("J.K")	NA	NA							
2	7 <i>H</i>	NA	NA	NA	NA							
	71	Isocvanates	("U.K.")	NA	N'A							

7.06 continued below

^[] Mark (X) this box if you attach a continuation sheet.

SECTION 8 RESIDUAL TREATMENT GENERATION, CHARACTERIZATION, TRANSPORTATION, AND HANAGEMENT

General Instructions:

For questions 8.04-8.06, provide a separate response for each residual treatment block fl diagram provided in question 8.01, 8.02 or 8.03. Identify the process type from which intormation is extracted.

For questions 8.05-8.33, the Stream Identification Codes are those process streams listed in either the Section 7 or Section 8 block flow diagrams which contain residuals for each applicable waste management method.

For questions 8.07-8.33, if residuals are combined before they are handled, list those Stream Identification Codes on the same line.

Questions 8.09-8.33 refer to the waste management activities involving the residuals identified in either the Section 7 or Section 8 block flow diagrams. Not all Stream Identification Codes used in the sample answers (e.g., for the incinerator questions) has corresponding process streams identified in the block flow diagram(s). These Stream Identification codes are for illustrative purposes only.

For questions 8.11-8.33, if you have provided the information requested on one of the EP: Office of Solid Waste surveys listed below within the three years prior to your reporting year, you may submit a copy or reasonable facsimile in lieu of answering those questions which the survey addresses. The applicable surveys are: (1) Hazardous Waste Treatment. Storage, Disposal, and Recycling Survey; (2) Hazardous Waste Generator Survey; or (3) Subtitle D Industrial Facility Mail Survey.

[_]	Mark (X)	this	box if	you a	ttach	a	continuation	sheet.	

8.0	diagram(s). If a process type, pho	residual treatectory	atment block fuestion and co	lov diagram is mplete it sepa	provided for rately for ea	more than ch process
CBI	• •		ons for furthe		and an exampl	e.)
(c.	capsulating d.		f.	
	a. b.		u.	€.	Ι.	g ·
	Stream Type of ID Hazardous Code Vaste	Physical State of Residual ²	Knovn Compounds ³	Concentra- tions (% or ppm) 1,5,6	Other Expected Compounds	Estimate Concen- trations (% or ppm
	70 H.R.TE	OL	2,4-TDI	74%	("U.Z")	("U.K.")
			2,6-TDI	18%	("UL")	(UK)
					- Charles and the same of the	and the same of th
				VI		
			The state of the s	- La Company		
					A September Commenced	
				-		
						_
						_
						_
						

O.OD (CONTINUES)	8.05	(continued)
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8.05

For each additive package introduced into a process stream, specify the compound that are present in each additive package, and the concentration of each compone Assign an additive package number to each additive package and list this number column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number		Components of Additive Package	Concentrations (% or ppm)
. 1	(N/A)		-
2			
3			
4			
5			
Use the following	codes to d	esignate how the concentr	ation was determined:
A = Analytical res E = Engineering ju	ult		
continued below			
Mark (X) this box i	f you attac	ch a continuation sheet.	

8.06	diagram process	i(s). If a r type, photo	esidual trea copy this qu	stment block sestion and o	i in your residual flow diagram is pro complete it separato ner explanation and	ovided for mo ely for each	ore than			
CBI	Process	type		Encapsulating Potting						
· — '	a.	<i>t</i> b.	···	d.	33426113/101					
	Stream ID Code	Vaste Description Code	Management	Residual Quantities _(kg/yr)	Management of Residual (%) On-Site Off-Site	f. Costs for Off-Site Management (per kg)	Changes Managem			
	7C	<u>B67/B69</u>	1ST	. 227	100%	("OK")	NA			
	70	B67/B69	1ST	<u>("U.K.")</u>	100%	("UK")	NA			
÷	<u>75</u>	B92	1 S T	("U.K")	100%	("U.K")				
					esignate the vaste					
,		this box if	•		esignate the manage	ement methods				

EXHIBIT 8-2. (Refers to question 8.06(c))

MANAGEMENT METHODS

	MANAGEMENT	METH	IODS
		_	
H1 :	Discharge to publicly owned		very of solvents and liquid organics
41	vastevater treatment vorks Discharge to surface vater under		reuse Fractionation
72	NPDES		Batch still distillation
	Discharge to off-site, privately		Golvent extraction
	owned vastevater treatment works		Thin-film evaporation
¥4.	Scrubber: a) caustic: b) vater:	SSR	Filtration
	c) other		Phase separation
M5 -	Vent to: a) atmosphere: b) flare:	7SR	Dessication
	c) other (specify)	8SR	Other solvent recovery
H6 =	Other (specify)	_	
			very of metals
TRE	ATHERIT AND RECYCLING	IMR	Activated carbon (for metals
	In annual or (the small three three	748	recovery)
	ineration/thermal treatment Liquid injection	ZAR	Electrodialysis (for metals recovery)
	Rotary or rocking kiln	IMB	Electrolytic metal recovery
3I		AMR	Ion exchange (for metals recovery:
21	unit	SMR	Reverse osmosis (for metals
/. T	Tvo stage	JIIA	LECOAGLA)
ST	Fixed hearth	AMR	Solvent extraction (for metals
	Hultiple hearth	01.11	recovery)
71	Fluidized bed	7MR	Ultrafiltration (for metals
	Infrared		recovery) -
91	Fume/vapor	8MR	Other metals recovery
101	Fume/vapor Pyrolytic destructor		
111	Other incineration/thermal	Vast	evater Treatment
	treatment	Afte	er each wastewater treatment type
			listed below (1WT - 66WT) specify
Reus	e as fuel		a) tank: or b) surface impoundment
1RF	Cement kiln		(i.e 63VTa)
2RF	Aggregate kiln		
3RF	Asphalt kiln	Equa	dization
	Other kiln	lvt	Equalization
	Blast furnace		
6RF	Sulfur recovery furnace		ide oxidation
7RF	Smelting, melting, or refining		Alkaline chlorination
_	furnace		Ozone
	Coke oven		Electrochemical
	Other industrial furnace	DAI	Other cyanide oxidation
	Industrial boiler	_	•
	Utility boiler		ral oxidation (including
	Process heater		infection)
13RF	Other reuse as fuel unit		Chlorination
	91 11	7 VT	
Luel	Blending		UV radiation
118	Fuel blending	AAT	Other general oxidation
6614	Alflection	Char	sical precipitation
	dification		
15	Cement or cement/silicate processes		C Lime
2S	Pozzolanic processes		C Sodium hydroxide
35	Asphaltic processes		C Soda ash C Sulfide
45	Thermoplastic techniques		
55	Organic polymer techniques	144	C Other chemical precipitation
6S	Jacketing (macro-encapsulation) Other solidification	Ch c	omium reduction
7 S	Other Soliditication		omium reduction P Sodium bisulfite
			r Socium disullite P Sulfur dioxide
		TOA	I PATIAL GIOXIGE

_1		Ch	oustion amber ture (°C)	Temp	tion of erature		ence Time bustion (seconds
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Second
	1						
	2						
	3						
	by circl Yes		of Solid Wast			· · · · · · · · · · · · · · · · · · ·	of respon
t	omplete the fore used on-sit reatment block ncinerator	te to burn t	ne residuals	lution	in your proce	Types Emissions Availa	residua of Data
	2						
	1						
_	Indicate by circli	if Office o	f Solid Waste	survey has	been submitt	ed in lieu o	of respon
-	Indicate by circli	ng the appro	opriate respo	nse.			
-	Indicate by circli	ng the appr	f Solid Waste	nse.	• • • • • • • • • • • • • • • • • • • •	••:••••	• • • • • •

9.01 Mark (X) the appropriate column to indicate whether your company maintains records the following data elements for hourly and salaried workers. Specify for each dat element the year in which you began maintaining records and the number of years th records for that data element are maintained. (Refer to the instructions for furt explanation and an example.)

Data are Maintained for: Year in Which Number of

Data Element	Hourly Vorkers	intained for Salaried Vorkers	Year in Which Data Collection Began	Number of Years Recor Are Maintai
Date of hire	<u>X</u>	<u>X</u>	1949	Permanen
Age at hire	X	X	1949	Permanen
Work history of individual before employment at your facility	X	X	1949	Permanent
Sex	X	<u> </u>	1949	Permane.
Race	<u> </u>	X	1949	Permanen 7
Job titles	<u>X</u>	X	1949	Permaner
Start date for each job title	X	<u> </u>	1949	Permanent
End date for each job title	X	<u>X</u> .	1949	Permonen-
Work area industrial hygiene monitoring data	<u> </u>	X	("O.K.")	Permanent
Personal employee monitoring data	X	X	("U.K."	Permaners
Employee medical history	<u> </u>	<u> </u>	1944	Permane.
Employee smoking history	<u> </u>	<u> </u>	1986	Formaner-
Accident history	X	<u> </u>	1949	Growing 2
Retirement date	$\overline{}$		1049	Permanen
Termination date	X	<u> </u>	1959.	Permaner
Vital status of retirees	<u> </u>		("UK")	N.A.
Cause of death data	X	X	1949	Permanent

· į

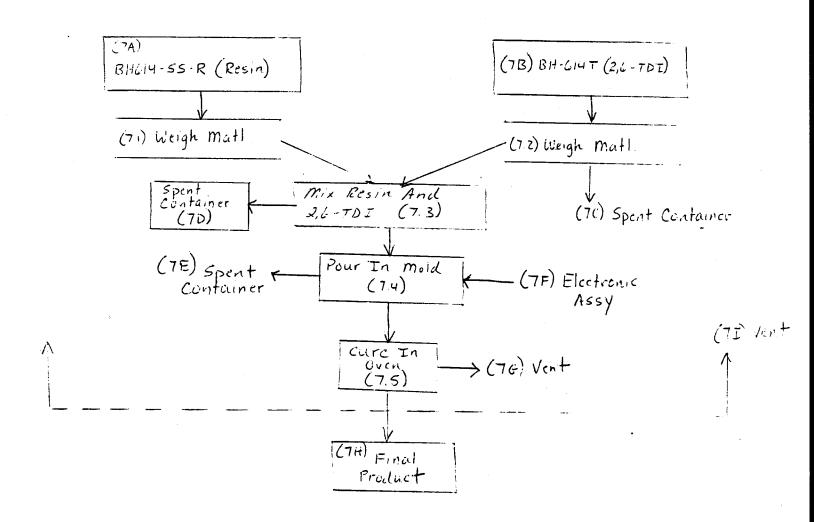
^[] Mark (X) this box if you attach a continuation sheet.

9.03	encompasses worker listed substance.	tive job title for each labor category at your facility that rs who may potentially come in contact with or be exposed to t
CBI []		
	Labor Category	Descriptive Job Title
	A	Polling Operator
	В	According Ware
	. c	
	D	
	E	
	F	
	G	
	Н	
	I	
	J	
		* 1
		\cdot
	•	
,		

9.04	In accordance with the instructions,	provide your	process block	flow diagram(s)	and
	indicate associated work areas.	•	•		

CBI

[] Process type Encapsulating | Potting
Operator Contacts Entire Area



_	Process typ	e	Encapsulati	ng / 1	Potting		
	Fork area .		• • • • • • • • • • • • • • • • • • • •	• • • • • •	· ··· <u> </u>	1	
	Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direc skin contact	t	Physical State of Listed Substance	Average Length of Exposure Per Day	Numb Days ïe Exp
	_ <u>A</u>	5	Skin/Inhalat	ion	OL	D, E	25
							
				· .			
				 .			
			*				
	GC = Gas (contemper GU = Gas (untemper GU = Gas (un	exposure: condensible at ature and present ature at ature at ature at ature at a ature at a ature and present ature at a ature at a ature	sure) it ambient sure;	SY = S AL = A OL = O IL = I	cludge or sliqueous liqueous l	urry id id iquid ses, e.g.,	stanc
2	Use the foll	oving codes to	designate avera	ge len	gth of expos	sure per day:	
1	exceeding C = Greater	than 15 minute	s, but not	ex E = Gr ex	ceeding 4 ho	hours, but rours	

9.06 CBI	each labor come in con	e following tal category at you tact with or be e it separately	ur facility the e exposed to th	t encom	mpasses vorker ed substance.	s who may pot Photocopy th	entially
1_1	Process typ	e	Encapsulati	ing /	Potting		
	Fork area .		• • • • • • • • • • • • •	•••••		2	
	Labor Category	Number of Vorkers Exposed	Mode of Exposu (e.g., dir skin conta	ect	Physical State of Listed Substance	Average Length of Exposure Per Day	Number Days pe Year Expose
	A	5	Skin/Inhal	ation	OL	B, C	("U.K."
							• .
							
					6 As	•	`
				· .			
,							
	GC = Gas (tempe GU = Gas (tempe inclue SO = Solid	lowing codes to fexposure: condensible at rature and presure and presure and presides fumes, vaposes fumes, vaposes	ambient ssure) at ambient ssure; ors, etc.)	SY = AL = OL = IL =	Sludge or sl Aqueous liqu Organic liqu Immiscible l (specify pha 90% vater, 1	urry id id iquid ses, e.g., 0% toluene)	
•	A = 15 minus B = Greater exceeding	tes or less than 15 minute ng 1 hour than one hour	es, but not	D = (Greater than exceeding 4 h	2 hours, but ours 4 hours, but	not
	exceedir	box if you a		F = (Greater than		

80 I	If you monitor works	er exposur	e to the li	sted substa	nce, compl	ete the fo	llowing tab
_ _ 1 	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number o Years Reco Maintaine
	Personal breathing zone						
	General work area (air)						
	Wipe samples						
	Adhesive patches						
	Blood samples						
	Urine samples						-
	Respiratory samples						
	Allergy tests						
	Other (specify)				-		
	Other (specify)						
	Other (specify)						
			 .				
:	Use the following co A = Plant industrial B = Insurance carrie C = OSRA consultant D = Other (specify)	hygienis r		takes the	monitoring	samples:	

(<u>=</u>)	Sample Type	- (NA)	Sampling and Analyt	ng and Analytical Methodology			
.10	If you conduct person specify the following	ng information for	ent air monitoring fo or each equipment typ	r the listed s	substance,		
<u>BI</u> 	Equipment Type 1	Detection Lim	it ² Manufacturer	Averaging Time (hr)	Model Numb		
3							
	A = Passive dosimet B = Detector tube C = Charcoal filtra D = Other (specify)	er tion tube with p	•				
	E = Stationary moni F = Stationary moni G = Stationary moni H = Mobile monitoris I = Other (specify)	tors located wit tors located wit tors located at ng equipment (sp	hin facility plant boundary	·	types:		
	A = ppm	ntimeter (f/çc)	e detection limit un	its:			

	Describe the engineering conto the listed substance. Proprocess type and work area.	notocopy this	question and comp	lete it separat	ely for e		
]	Process type			1			
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Tear Upgrad		
	Ventilation:						
	Local exhaust		C'idixi)		NA		
	General dilution	<u> </u>	("J.Z.")		11/2		
	Other (specify)						
	Vessel emission controls	<u>//</u>					
	Mechanical loading or packaging equipment		-				
	Other (specify)						
							
				•			

^[] Mark (X) this box if you attach a continuation sheet.

[_]	Process type Encapsulating Pott	ing
	Vork area	<u>2</u>
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (2
	NA	
-		
	•	-
		. •
Þ	Mark to	
		,.: ·
	. 1	•
		·
•		

	9.14	in each vork area	sonal protective and safety equal in order to reduce or elimina occupy this question and complet	TO THATE AURABUSE DA		
Wear or Use (Y/N) Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	CBI		a .	,		
Wear or Use (Y/N) Respirators	[]	Process type	Encapsulating	1 Potting		_
Equipment Types (Y/N) Respirators				·····	1	_
Equipment Types (Y/N) Respirators						
Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)				Use		
Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)						
Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)			•			
Coveralls Bib aprons Chemical-resistant gloves Other (specify)						
Bib aprons Chemical-resistant gloves Other (specify)					_	
Chemical-resistant gloves Other (specify)			•			
Other (specify)		A.	•		•	
	3	i ii		<u> </u>		
			Other (specify)	·		
				<u>-</u>		
			,			
		,			•	
	-					

	orker exposur vorkers, mark practices, pr	re to the li k areas with rovide worke	isted sui n varning er train:	bstance (e.g g signs, ins ing programs	controls used ., restrict en ure vorker den , etc.). Phon ype and vork a	ntrance only to tection and tocopy this
pe	<u> </u>	Encapsulo	ating	Potting		
						1
,	oure Foils	harre delay.	Lan Pr	a and and		
<u>/</u>	ovce Foile Ventila	tion	7671 	oceaure		***
	, , , , , , , , , , , , , , , , , , , ,	,,,,,				
				,		
						· · · · · · · · · · · · · · · · · · ·
•	Tasks		Than	1-2 Times Per Day	3-4 Times Per Day	More Than 4
•			FNA			
g		N/				
g		/\/ /·				
	ng of floors		17			
i	ng of floors fy)		17			
i:			<u>/}</u>			
i:	fy)					
i:	fy)					
	ng of floors		17	_		

	Describe all of the work eliminate worker exposure authorized workers, mark monitoring practices, proquestion and complete it	e to the listed s areas with warni ovide worker trai	substance (e.g ing signs, ins ning programs	., restrict e ure vorker de . etc.). Pho	entrance only to etection and etocopy this
_1	Process type	Encapsulation	al Potting	Ĵ	
	work area			•••	2
	O Employee Follow	us Written F	Procedure		
•	2 Local Ventilati				
-					
-	·				
s: P:	ndicate (X) how often you eaks or spills of the liseparately for each process rocess type	sted substance. ss type and vork	Photocopy thi	sk used to cl s question ar	lean up routing
P:	eaks or spills of the liseparately for each processorocess type	sted substance. ss type and work Less Than	Photocopy thi area.	s question ar	More Than 4
S: P: Vo	eaks or spills of the lise eparately for each proces	Less Than Once Per Day	Photocopy thi	s question ar	More Than 4
P: Vo	rocess type	sted substance. ss type and work Less Than	Photocopy thi area.	s question ar	More Than 4
P: Wo	eaks or spills of the liseparately for each process rocess type ork area	Less Than Once Per Day	Photocopy thi area.	s question ar	More Than 4
P: Vo	eaks or spills of the liseparately for each process rocess type	Less Than Once Per Day	Photocopy thi area.	s question ar	More Than 4
P: Vo	eaks or spills of the liseparately for each process rocess type ork area	Less Than Once Per Day	Photocopy thi area.	s question ar	More Than 4
P: Vo	eaks or spills of the liseparately for each process rocess type ork area	Less Than Once Per Day	Photocopy thi area.	s question ar	More Than 4
P: Vo	eaks or spills of the liseparately for each process rocess type ork area	Less Than Once Per Day	Photocopy thi area.	s question ar	More Than 4 Times Per Day
P: Vo	eaks or spills of the liseparately for each process rocess type ork area	Less Than Once Per Day	Photocopy thi area.	s question ar	More Than 4

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the list substance that occurred during the reporting year. Report on all releases that are equi to or greater than the listed substance's reportable quantity value, RQ, unless the relis federally permitted as defined in 42 U.S.C. 9601. or is specifically excluded under definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codifiin 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) . thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substant however, is designated as a CERCLA hazardous substance, then report those releases that equal to or greater than the RQ. The facility may have answered these questions or sim questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period not single releases, i.e., the release of a chemical substance equal to or greater than RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01 <u>CBI</u>	l Where is your facility located? Ci	rcle all appropriate respons	ses.
[_]	Industrial area	•••••	
	Urban area		•
	Residential area	्रेड्डी • • • • • • • • • • • • • • • • • • •	
	Agricultural area	••••	
	Rural area	••••	
	Adjacent to a park or a recreationa	l area	
	Within 1 mile of a navigable vatery	ay	
	Within 1 mile of a school, universi	ty, hospital, or nursing ho	me facility
,	Within 1 mile of a non-navigable va	tervay	
•	Other (specify)		

10.08 CBI	for each process streat process block or resid	echnologies used to minimize release of m containing the listed substance as it ual treatment block flow diagram(s). Itely for each process type.	dentified in your
	Process type	Encapsulating / Potting	
_		,	
	Stream ID Codo	Control Technology	Percent Efficient
	70	None	
	70		
	<u>7</u> E	:	
	76		
	71		
			•
		,	
5			
			•
•			

[] Mark (X) this box if you attach a continuation sheet.

ID Stack (at outlet) Temperature Velocity Building Building	<u>I</u>	Point Sourc e		Stack Inner Diameter	Exhaust	Emission Exit	("U.K.")) .
Height of attached or adjacent building Vidth of attached or adjacent building Use the following codes to designate vent type: H = Horizontal		ID		(at outlet)	Temperature (°C)	Velocity (m/sec)	Building Height(m)		Ven Typ
² Width of attached or adjacent building ³ Use the following codes to designate vent type: H = Horizontal		<u>=641</u>	<u>3</u>						
<pre>2 Width of attached or adjacent building 3 Use the following codes to designate vent type: H = Horizontal</pre>									
<pre>Width of attached or adjacent building Use the following codes to designate vent type: H = Horizontal</pre>									
<pre>Width of attached or adjacent building Use the following codes to designate vent type: H = Horizontal</pre>									
<pre>Width of attached or adjacent building Use the following codes to designate vent type: H = Horizontal</pre>									
<pre>Width of attached or adjacent building Use the following codes to designate vent type: H = Horizontal</pre>									 -
<pre>Width of attached or adjacent building Use the following codes to designate vent type: H = Horizontal</pre>		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
H = Horizontal				,					
		³ Use the f	collowing	codes to desi	gnate vent t	ype:			
						1			

10.13	Equipment Leaks Complete types listed which are expo- according to the specified the component. Do this for residual treatment block fil not exposed to the listed s process, give an overall pe exposed to the listed subst for each process type.	sed to the livelight percented to the livelight percentage of	listed suent of the ss type is s). Do no if this is time per	bstance as e listed dentified of includes a batch year tha	nd which a substance in your per equipment of interstants the proof	passing process bint types passing types pattently tess type	rvice through lock or that are operate is
(-)	Process type						
	Percentage of time per year				-	•	ocess
	type		of Compos	nents in : d Substan	Service by	 V Weight 1	
	Equipment Type	Less than 5%		11-25%		76-99%	Greate than 9
	Pump seals ¹						
	Packed						
	Mechanical					•	
	Double mechanical ²						
	Compressor seals ¹						
	Flanges						
	Valves (N)						
	Gas ³						
	Liquid						
	Pressure relief devices (Gas or vapor only)						
	Sample connections		•	•			
	Gas						
	Liquid						
	Open-ended lines ⁵ (e.g., purge, vent)						
	Gas						
	Liquid						

10.I3 continued on next page

		Mark	(X)	this	pox	if	you	attach	a	continuation	sheet	
--	--	------	-----	------	-----	----	-----	--------	---	--------------	-------	--

<u>CBI</u>	type.			(1:1)		•
[-]	Process type			(N/)		
\ '	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	Equipment Type	Leak Dotaction Concentration (ppm or mg/m²) Measured at Inches from Source	Detection Device	of Leak Detection	Repairs Initiated (days after detection)	Repair Complet (days af initiate
	Pump seals					
	Packed					
	Mechanical	***************************************				
	Double mechanical					
	Compressor seals					
	Flanges	·				
	Valves					
	Gas				<u>.</u>	
	Liquid					
	Pressure relief devices (gas or vapor only)					•
,	Sample connections					
	Gas					
	Liquid					
	Open-ended lines		· · · · · · · · · · · · · · · · · · ·			
	Gas					
	Liquid					
	¹ Use the following co POVA = Portable orga FPM = Fixed point mo 0 = Other (specify)	nic vapor analyze: nitoring		vice:		
	vince (opecial)					

	list all		Date	Time .	Date	Time
	Release	_5	tarted	(am/pm)	Stopped	(am/p=1
	1					
	2	· 				
)		_				
	5	_				
				· · · · · · · · · · · · · · · · · · ·		
10.24	Specify th	e veather con	nditions at the	time of each r	elease.	
		veather con Vind Speed (km/hr)	nditions at the Wind Direction	time of each r Humidity (%)	elease. Temperature(°C)	Precipitati (Y/N)
	Specify th	Wind Speed	Vind	Humidity	Temperature	Precipitati (Y/N)
	Specify th	Wind Speed	Vind	Humidity	Temperature	
	Specify th	Wind Speed	Vind	Humidity	Temperature	
	Specify the Release	Wind Speed	Vind	Humidity	Temperature	
	Specify the Release 1 2 3	Wind Speed	Vind Direction	Humidity	Temperature	
	Specify the Release 1 2 3 4	Wind Speed	Vind	Humidity	Temperature	

_ ,	Mark	/Y\	.hie	hav	i f	VOII	attach	_	continuation	cheet
l j	HAIK	(λ)	tnis	DOX	11	you	attacn	3	continuation	sneet.



Form Approved
OMB No. 2010-0019
Approval Expires 12-3

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Comprehensive Assessment Information Rule REPORTING FORM

When completed, send this form to:

Document Processing Center
Office of Toxic Substances, TS-790
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Attention: CAIR Reporting Office

For Agency Use Only:

Date of Receipt: _

Document

Control Number:

Docket Number:

EPA Form 7710-52

24 751

584-84-9

1.03	Does the substance you are reporting on have an "x/p" designation associated with in the above-listed <u>Federal</u> <u>Register Notice?</u>
<u>CBI</u>	Yes
[_]	No
CBI [_]	20 you handCacture. Toport, or process the listed substance and distribute in under a trade name(s) different than that listed in the Federal Register Notice Circle the appropriate response. Yes
	b. Check the appropriate box below:
	[] You have chosen to notify your customers of their reporting obligations
	Provide the trade name(s)
	[] You have chosen to report for your customers
•	[] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.
1.05 CBI	If you buy a trade name product and are reporting because you were notified of you reporting requirements by your trade name supplier, provide that trade name.
	Trade name Eccofcam FPH, Stepanfoum BH-614-T
''	Is the trade name product a mixture? Circle the appropriate response.
(Yes
	No
	Certification The person who is responsible for the completion of this form mus sign the certification statement below:
CBI	"I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate."
	David Minerley David Munily 12/19/90. NAME DATE SIGNATURE DATE SIGNED
•	David Minerley David Maniley 12/19/90 NAME SIGNATURE DATE SIGNED Safety & Environ Spec. (607) 770 - 2696 TITLE TELEPHONE NO.
(<u> </u>	ark (X) this box if you attach a continuation sheet.

1.11	Parent Company Identification
CBI	Name (CENTERAL) EDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDED
[_]	Address [3] [0] [0] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1
	(<u>제]짓</u>] (<u>기</u>] <u>키</u>] (<u>기</u>]
	Dun & Bradstreet Number[<u>중]주]-[조]3]-[조]1]</u>
1.12	Technical Contact
CBI	Name [D]AIVITIDITIMITIMIEIRITIEIVITITITITITITITITITITITITITITITITIT
[_]	Title [S]A[F]E[F]Y[][Z][][F]V[V][][R[C]V[][]S[F]E[C][][][]
	Address (조)조(조)조(조)조(조(조)조(조(조(조(조(조(조(조(조(조(조(
	City (7.3.3.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7
	[<u>\overline{N}\overline{Y}\ove</u>
	Telephone Number
.13	This reporting year is from
	Mo. Year Mo.

was manufactured, imported, or processed at your facility during the	reporting
Classification	Quantity
Manufactured	<u>//</u> ,
Imported	<u>///</u>
Processed (include quantity repackaged)	<u>20.</u>
Of that quantity manufactured or imported, report that quantity:	
In storage at the beginning of the reporting year	·
For on-site use or processing	
For direct commercial distribution (including export)	. •
In storage at the end of the reporting year	
Of that quantity processed, report that quantity:	
In storage at the beginning of the reporting year	<u>("c</u>
Processed as a reactant (chemical producer)	
Processed as a formulation component (mixture producer)	
Processed as an article component (article producer)	<u>-</u> 20.
Repackaged (including export)	
In storage at the end of the reporting year	
· • • • • • • • • • • • • • • • • • • •	

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

2.04	State the quantity of the listed substance that your facility manufactured, importe or processed during the 3 corporate fiscal years preceding the reporting year in descending order.
<u>CBI</u>	
(_)	Year ending $(\overline{\underline{T}})\overline{\underline{\mathbb{Z}}}$ $(\overline{\underline{S}})$
	Quantity manufactured
	Quantity imported
	Quantity processed ≈ 4.7
	Year ending (1)2) (9)(Mo. Yea
	Quantity manufactured
	Quantity imported
	Quantity processed ≈ 33
	Year ending [1]2] [3]5 - Mo. Yea
	Quantity manufactured
	Quantity imported
	Quantity processed
2.05	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.
<u></u>	(NA)
_1	Continuous process
	Semicontinuous process
	Batch process
-,	Mark (X) this box if you attach a continuation sheet.
- '	

The same of the sa	2.03	Substance duri	largest volume manufacturing or processing procece, specify the number of days you manufactured ng the reporting year. Also specify the average ss type was operated. (If only one or two operated)	or processed	the lis
Process Type *1 (The process type involving the largest quantity of the listed substance.) Manufactured Processed Process Type *2 (The process type involving the 2nd largest quantity of the listed substance.) Manufactured Processed Manufactured Processed (NA) Processed	<u> 381</u>				
Hanufactured NA			•	Days/Year	Averag Hours C
Process Type *2 (The process type involving the 2nd largest quantity of the listed substance.) Manufactured Process Type *3 (The process type involving the 3rd largest quantity of the listed substance.) Manufactured Processed NA Processed NA Processed State the maximum daily inventory and average monthly inventory of the listed substance that was stored on-site during the reporting year in the form of a bulk chemical. Maximum daily inventory Average monthly inventory		Process Type #1	(The process type involving the largest quantity of the listed substance.)		
Process Type #2 (The process type involving the 2nd largest quantity of the listed substance.) Manufactured			Manufactured	(NA)	
Process Type #3 (The process type involving the 3rd largest quantity of the listed substance.) Hanufactured			Processed	≈250	9
Process Type #3 (The process type involving the 3rd largest quantity of the listed substance.) Hanufactured		Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
Process Type #3 (The process type involving the 3rd largest quantity of the listed substance.) Manufactured Processed State the maximum daily inventory and average monthly inventory of the listed substance that was stored on-site during the reporting year in the form of a bulk chemical. Maximum daily inventory Average monthly inventory			Manufactured	(NA)	
Manufactured			Processed	(NA)	
2.10 State the maximum daily inventory and average monthly inventory of the listed substance that was stored on-site during the reporting year in the form of a bulk chemical. [_] Maximum daily inventory Average monthly inventory		Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)	•	
2.10 State the maximum daily inventory and average monthly inventory of the listed substance that was stored on-site during the reporting year in the form of a bulk chemical. [_] Maximum daily inventory Average monthly inventory			Manufactured	NA	
substance that was stored on-site during the reporting year in the form of a bulk chemical.			Processed	(NA)	
Average monthly inventory		substance that t	am daily inventory and average monthly inventory as stored on-site during the reporting year in	y of the lis the form of	ted a bulk
Average monthly inventory		Maximum daily in	ventory		
				4	-
Mark (X) this box if you attach a continuation sheet					·
Mark (X) this box if you attach a continuation sheet					
			•		
		Mark (X) this has	x if you attach a continuesies short		

Product Types 1	<pre>% of Quantity Manufactured, Imported, or Processed</pre>	% of Quantity Used Captively On-Site	Type of End-Use
	100%	0%	<u>H</u>
Use the following code A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh	/Accelerator/ N er/Scavenger/ /Sequestrant R /Degreaser S modifier/Antivear T ier V esive and additives X	<pre># Moldable/Castable # Plasticizer # Dye/Pigment/Colo # Photographic/Rep # and additives # Electrodeposition # Explosive chemical # Explosive chemical # Fragrance/Flavor # Pollution control # Functional fluid # Metal alloy and # Rheological modit # Other (specify)</pre>	rant/Ink and additions and additions and additives chemicals chemicals and additives and additives and additives additives additives
Use the following code I = Industrial CM = Commercial	CS = Consum		

	b.	c. Average %	₫.
Product Type:	Final Product's Physical Form	Composition of Listed Substance in Final Product	Type of End-Use
	(N'A))	
		·	
¹ Use the following co	odes to designate pro		
<pre>A = Solvent B = Synthetic reacts C = Catalyst/Initial Sensitizer D = Inhibitor/Stabil</pre>	tor/Accelerator/	<pre>L = Moldable/Castable/Re M = Plasticizer N = Dye/Pigment/Coloran 0 = Photographic/Reprogrand additives</pre>	t/Ink and acraphic chemi
Antioxidant E = Analytical reage F = Chelator/Coagula	int/Sequestrant	P = Electrodeposition/P: Q = Fuel and fuel addit: R = Explosive chemicals	ives and additi
<pre>G = Cleanser/Deterge H = Lubricant/Fricti agent</pre>	on modifier/Antivear	U = Functional fluids as	hemicals nd additive:
	iller	V = Metal alloy and add:	
<pre>I = Surfactant/Emuls J = Flame retardant</pre>	dhesive and additives	<pre>W = Rheological modifies X = Other (specify)</pre>	r
<pre>I = Surfactant/Emuls J = Flame retardant K = Coating/Binder/A</pre>			
I = Surfactant/Emuls J = Flame retardant K = Coating/Binder/A Use the following co A = Gas B = Liquid C = Aqueous solution	des to designate the F2 = Crys F3 = Gran	s X = Other (specify) final product's physical stalline solid nules	
I = Surfactant/Emuls J = Flame retardant K = Coating/Binder/A Use the following co A = Gas B = Liquid	des to designate the F2 = Crys F3 = Gran F4 = Othe G = Gel	s X = Other (specify) final product's physical stalline solid nules	
I = Surfactant/Emuls J = Flame retardant K = Coating/Binder/A Use the following co A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry Fl = Powder	rdes to designate the F2 = Crys F3 = Gran F4 = Othe G = Gel H = Othe	s X = Other (specify) final product's physical stalline solid nules er solid er (specify)	
I = Surfactant/Emuls J = Flame retardant K = Coating/Binder/A Use the following co A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry	rdes to designate the F2 = Crys F3 = Gran F4 = Othe G = Gel H = Othe des to designate the CS = Cons	s X = Other (specify) final product's physical stalline solid nules er solid er (specify) type of end-users:	form:

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

2.01 <u>:BI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.	AE 370 ! FOS	
	Source of Supply	Quantity (kg)	Average P (S.kg)
	The listed substance was manufactured on-site.		-
	The listed substance was transferred from a different company site.		
	The listed substance was purchased directly from a manufacturer or importer.		
	The listed substance was purchased from a distributor or repackager.	20.3	("U.K.
	The listed substance was purchased from a mixture producer.		
_ (Truck Railcar Barge, Vessel Pipeline Plane Other (specify)		

BI	of the mixture, the name	e of its supplier(s) tion by weight of the	rm of a mixture, list the or manufacturer(s), an est listed substance in the mting year.	1 444 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
_'	Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)
	Eccotoam FPH	Emerson - Comminas	,	10
	Stepanfour BH-614-T	Stepan Co.	74°/c	22.7

[_] Mark (X) this box if you attach a continuation sheet.

SECTION 4 PHYSICAL/CHEMICAL PROPERTIES

General Instructions:			•
If you are reporting on a mi → that are inappropriate to	xture as defined in the gl mixtures by stating "NA	lossary, reply to ques - mixture."	tions in Sect
For questions 4.06-4.15, if notice that addresses the in facsimile in lieu of answering	Cormation requested, you m	iau cuhmir a conce o	. MSDS. or ot: easonable
PART A PHYSICAL/CHEMICAL DAT	TA SUMMARY		
issort the cubercase	rity for the three major 1 afactured, imported, or pr product form for manufact or at the point you begin	ocessed. Measure the	purity of the
("NA - Mixture")	Manufacture	Import	Process
Technical grade #1	% purity	% purity	% puri
Technical grade #2	% purity	% purity	% puri
Technical grade #3	% purity	% purity	% pur:
¹ Major = Greatest quant	ity of listed substance ma	anufactured, imported	or processed.
an MSDS that you develop	ly updated Material Safety y formulation containing ped and an MSDS developed her at least one MSDS has	the listed substance.	If you posse
Yes	• • • • • • • • • • • • • • • • • • • •		
No			
Indicate whether the MSI	OS was developed by your o		
	attach a continuation sh	leet. Applying of	welly
	25	Calle same u	in O al
	,	tollowing) +1	ns braz
			•

O.K MAR 0 8 1990

NF 00956 01

MATERIAL SAFETY DATA SHEET

DATE: 03/02/90 CUST # 39795-701 P.O.# 34929 PAGE:

PRODUCT NUMBER: 188478 PRODUCT NAME: STEPANFOAM BH-614-T

TOLUENE-2,4-DIISOCYANATE (TDI) (C) 0.005 0.005 SARA 313

(584-84-9)

748

TOLUENE-2,6-DIISOCYANATE (TDI) (C)

0.005

0.005

SARA 313

(91-08-7)

18%

NE = NOT ESTABLISHED.

NL = NOT LISTED.

(C) = IDENTIFIED AS A CARCINOGEN BY OSHA, IARC, OR NTP.

BOILING POINT:

OVER 200 DEG F. (93 DEG C.).

% VOLATILE BY WEIGHT:

NIL

EVAPORATION RATE: ESTIMATED SLOWER THAN ETHYL ETHER.

VAPOR DENSITY: ESTIMATED HEAVIER THAN AIR. WEIGHT PER GALLON:
10.0 LBS.

\$ SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT (SETA FLASH CLOSED CUP):

OVER 200 DEG F. (93 DEG C.).

EXPLOSIVE LIMITS:

LOWER:

1%

EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, FOAM, OR

WATER FOG. CLASS BC, ABC FIRE EXTINGUISHER.

SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED POSITIVE PRESSURE
BREATHING APPARATUS AND PROTECTIVE
CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

(CONTINUED)

NF 00956 01

MATERIAL SAFETY DATA SHEET

DATE: 03/02/90

CUST # 39795-701 P.O.# 34929

P•0•# 34929

PAGE:

PRODUCT NUMBER: 188478

PRODUCT NAME: STEPANFOAM BH-614-T

SMALL SPILLS: SOAK UP WITH ABSORBANT, SHOVEL INTO WASTE CONTAINER, FLUSH AREA WITH WATER.

LARGE SPILLS: RECOVER LIQUID FOR REPROCESSING OR DISPOSAL.

WASTE DISPOSAL: RECOVER MATERIAL OR DISPOSE (INCINERATION IS PREFERRED) IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. MATERIAL COLLECTED WITH ABSORBANT MAY BE DISPOSED IN A PERMITTED LANDFILL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS EMPTY CONTAINER MAY RETAIN VAPOR OR PRODUCT RESIDUE.

OBSERVE ALL LABELED SAFEGUARDS UNTIL CONTAINER IS CLEANED, RECONDITIONED, OR DESTROYED.

EYE PROTECTION: WEAR FULL FACE SHIELD OR GOGGLES WHEN HANDLING. PROTECTIVE GLOVES: USE IMPERVIOUS GLOVES. RESPIRATORY PROTECTION:

IF VAPORS ARE PRESENT, USE NIOSH OR MSHA APPROVED RESPIRATOR FO ORGANIC VAPORS, AIR-LINE RESPIRATOR, OR A SELF-CONTAINED BREATHING APPARATUS.

VENTILATION:

USE VENTILATION ADEQUATE TO KEEP HAZARDOUS INGREDIENTS BELOW THEIR TLV (SEE SECTION II).

OTHER PROTECTIVE EQUIPMENT:

WEAR PROTECTIVE CLOTHING TO PREVENT REPEATED OR PROLONGED CONTACT.

EYE WASH STATION AND SAFETY SHOWER SHOULD BE NEAR WORK AREA.

 CONTROL
 <

HANDLING AND STORAGE:

AVOID OVERHEATING OR FREEZING.

AVOID OPEN FIRE OR FLAME.

OTHER PRECAUTIONS:

SPILLED MATERIAL IS SLIPPERY. WASH THOROUGHLY AFTER HANDLING. I INGESTED, CALL A PHYSICIAN.

DO NOT POUR INTO DRAINS, AS SOLIDS THAT FORM WILL PLUG SEWERS.

1% AMMONIA MAY BE USED TO NEUTRALIZE SPILLS.

NEITHER THIS DATA SHEET NOR ANY STATEMENT CONTAINED HEREIN GRANTS OR EXTENDS ANY LICENSE, EXPRESS OR IMPLIED, IN CONNECTION WITH PATENTS ISSUED OR PENDING WHICH MAY BE THE PROPERTY OF THE MANUFACTURER OR OTHERS. THE INFORMATION IN (CONTINUED)

SAFETY DA

TDI UZZ3

MSDS=330005

EHERSON AND CUHING, LINC. A GRACE CO. TT DRAGON COURT, T NOBURN, :NA 💥 01888

EMERGENCY/SAFETY INFORMATION: (617)935-4850: DR:(617)938-8630 : ADDITIONAL MSD5: (617)829-3300 4

The state of the s MSDS PREPARED BY: IDAVID MARS *** DATE 'PREPARED: #01/30/89 4 SUPERCEDES: 09/11/34 # DOCUMENT R: \$30003

-SECTION I - IDENTIFICATION-

PRODUCT: (TRADE) NAME: ECCOFDAM. FPH :

GENERAL CHEMICAL DESCRIPTION: FISC: YANATE PREPOLYMER

----SECTION II-INGREDIENTS-

MAXIHUH EXPOSURE LIMITS

PERCENT EY HEIGHT :

(8 HOUR TIME-WEIGHTED : AVERAGE):

TOLUENE-DIISOCYANATE-BASED

NOT ESTABLISHED

PREPOLYMER

COMPONENTS:

TOLUENE DIESOCYANATE(A) (:AS#: 584-84-9)

25-351 ·

0.02P2H

0.005PP.1 - 4

100

SEE "HEALTH HAZARD DATA"....

Section 1 (+) THIS MATERIAL IS REGULATED BY THE SARA SECTION 313 AMENDMENTS TO RORA.

---SECTION III-PHYSICAL DATA-

BOILING POINT (F): (> 200)

VAPOR PRESSURE AT 25°C: . < 1 MM HG

WOLATILES (% BY WEIGHT): NEGLIGIBLE

APPEARANCE AND COOR: RED LIQUID

SPECIFIC SRAVITY (HRTER=1): 1.30

SOLUBILITY IN HATER: REISTS WITH WATER

VAPOR DENSITY: HERVIER THAN AIR .

PRINTED : 05/30/89 ...

PAGE 1 OF 4.

SAFETY DATA

ELLUEUSH EDM

A TE CHANGE METERS

SECTION VI-SPILL OR LEAK PROCEDURES

NOTE: _PROTECTIVE GLOVES, CLOTHING, RESPIRATORY PROTECTION AND CREMICAL SPLASH GOGSLES
HUST BE NORN DURING ENTIRE CLEAN-UP PROCEDURE.

FOR SHALL SPILLS: TURN ON VENTILATION EQUIPMENT TO EVACUATE VAPORS FROM THE AREA. MIPE
UP, OR ABSORB WITH VERMICULITE OR OTHER ABSORBENT MATERIAL.

COLLECT WASTE IN SEALED CONTAINERS.

SCRUB AZEA WITH SOAPY WATER AND RINSE. PREVENTS RINSES FROM ENTERING TORATAS OR OTHER WATERWAYS.

SPILLED MATERIAL AND HATER RINSES SHOULD BE DIPOSED OF AS CHEMICAL WASTE IN ACCORDANCE WITH ALL CURRENT FEDERAL, STATE, AND LOCAL REGULATIONS.

FOR LARGE SPILLS: TURN ON VENTILATION EQUIPMENT TO EVACUATE TVAPORS FROM THE AREA: A NON-ESSENTIAL PERSONNEL SHOULD BE EVACUATED FROM IMMEDIATE AREA.

DIKE AREA TO CONTAIN SPILLED MATERIAL AND TO PREVENT RUNOFF INTO DRAINS, SEMERS, AND OTHER MATERIAYS.

SHOVEL OR PUMP TO DRUM OR SALVAGE TANK. ;

ABSORB RESIDUAL MATERIAL WITH SAND, VERHICULITE, OR OTHER ABSORBENT MATERIAL.

SCRAPE DR SHOUEL ABSORBED HASTE AND ABSORBENT INTO CONTAINERS.

THOROUGHLY SCRUB RESIDUAL MATERIAL OF AQUEDUS 18 AMMONIA AND 5% ISOPROPANOL.

COLLECT MATER RINSES IN D.O.T.-APPROVED CONTAINERS, SEPARATE FROM MATERIAL ABSORBED WITH

POLYMERIZED MATERIAL MAY BE SCRAPED UP AND DISPOSED OF SEPERATELY.

SPILLED MATERIAL AND MATER RINSES SHOULD BE DIPOSED OF AS CHEMICAL WASTE IN ACCORDANCE WITH ALL CORRENT FEDERAL STATE NAD LOCAL REGULATIONS.

-SECTION VII-SPECIAL PRECAUTIONS-

PERSONAL PROTECTION: AVOID SKIN: AND EYE CONTACT. HEAR GLOVES AND PROTECTIVE CLOTHING TO PREVENT EXPOSURE. AVOID BREATHING VAPORS' USE ONLY HITH ADEQUATE VENTILATION.

STORAGE: STORE IN COOL, DRY PLACE; KEEP REMOVED FROM ANY HEAT OR OPEN FLACE.

DO NOT EXPOSE TO MOISTURE; MOISTURE WILL MAKE PRODUCT UNUSABLE.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

VENTILATION REQUIREMENTS: FLEXIBLE DUCTHORK: SHOULD EXTEND TO AREAS OF HIGH CONCENTRATION TO PREVENT LOCAL BUILDUP: OF VAPOR. NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED IN THE ABSENCE OF MECHANICAL VENTILATION WHEN WORKING WITH LARGE QUANTITIES. OF MATERIAL.

FLAMMABILITY/EXPLOSION PRECAUTIONS: KEER AMAY:FROM INTENSE HEAT, OPEN FLAMES. 🕾

PRINTED 1. 05/30/89

PS CF 3 DF 4

4.03	Submit a copy or that is provided formulation contable by	to your custome ining the liste	rs/users re; d substance	garding the · Indicate	listed subs	stance or any
	Yes		IA)	••••••	• • • • • • • • • • • • • • • • • • • •	
	For each activity corresponding to listed. Physical the time you impormanufacturing, stofinal state of the	each physical so states for import or begin to porage, disposal	tate of the orting and p process the	listed subsprocessing a listed subs	stance durin activities a stance Phy	ng the activity are determined as
			-	Phys	sical State	
	Activity		Solid	Slurry	Liquid	Liquified Gas
	Manufacture		1	2	3	4
	Import		1 ,	2	3	- 4
	Process					. 4
	Store		1			4
	Dispose					4
	Transport					4
			•			

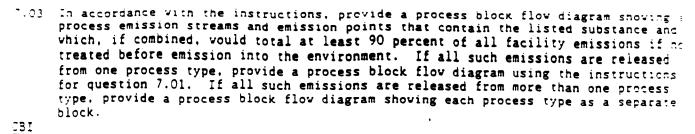
[] Mark (X) this box if you attach a continuation sheet.

SECTION 5 ENVIRONMENTAL FAT	ECTION	5	ENVIRONMENTAL.	FATE
-----------------------------	--------	---	----------------	------

	Indicate the rate constants for the following transformation processes.	
	a. Photolysis: Absorption spectrum coefficient (peak)("U.K.") (1/M cm) at	
	Reaction quantum yield, 6	3:
	Reaction quantum yield, 6	nı
	Direct photolysis rate constant, k, at ("U.K.") 1/hr	lati
р	o. Oxidation constants at 25°C:	
	For 10, (singlet oxygen), k _{ox}	1,
	For RO ₂ (peroxy radical), k _{ox}	1/
c	. Five-day biochemical oxygen demand, BOD, ('U.K.")	mg
đ	. Biotransformation rate constant:	
	For bacterial transformation in water, k, ("U.K.")	1/
	Specify culture	
е.	. Hydrolysis rate constants:	
	For base-promoted process, k _s	1/
	For acid-promoted process, k	
	For neutral process, k, ("U.K.")	1/
f.	Chemical reduction rate (specify conditions)	<u> </u>
		
a .	Other (such as spontaneous degradation) ("U.K.")	<u>·</u>
•	times (Such as spontaneous degradation) (O.N.)	

	Mark	(X)	this	box	if	you	attach	a	continuation	sheet.
--	------	-----	------	-----	----	-----	--------	---	--------------	--------

Bioconcentration Factor		Species		Test:
<u>("U.K.")</u>				
		•		
Use the following codes t	o designate	the type of tes	:t:	
<pre>F = Flowthrough S = Static</pre>				
				•
		·		
		•		
				•
				•



[] Process type Encapsulating / Potting

See Fage

$$(7.4)$$
, (7.5) (7.5) (7.5) Area Ventilation

^[] Mark (X) this box if you attach a continuation sheet.

7.04 CBI	process ploc	typical equipment typ k flow diagram(s). If cess type, photocopy t	a process block flow	y diagram is pro	vided for an
	Process type	Enca	usulating / Po	+ina	
	Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composit
	7.1	Paper Cup	Room	Reem	Paper
	7.2	Paper Cus	Loom	Room	Face
	7.3	Paper Cus	Roam	Roem	Paner
	7	muld	Rosm	Room	RTV. A
	7.5	Oven	1:0=50	Rucm	Steel
					*,
•					

^[] Mark (X) this box if you attach a continuation sheet.

7.06 CBI	Characterize each process stream identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photoc this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)								
[_]	Process ty	pe Encaps	sulating/	Pottina					
	а.	b.	c '	d.	e.				
	Process Stream ID Code	Known Compounds	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentration(% or ppm)				
	<u>7A</u>	BH614-55-R	100%	None	NA				
	<u> 73</u>	BH614-T	1000/0	2,4-TDI	7400				
				2,6 TOI	18%				
	<u>7C</u>	BH-614-T	1000/0	2,4-TDI	74%				
			***************************************	J,C-TOI	18%				
	70	Mixed Resin	1000/	None	MA				
	<u>~;=</u>	Solidified Resin	100%	Ammonia	("CK.")				
	7:-	NA	NA	NA	NA				
	77	Isocranales	("U.K")	NA	MA				
		Ammonia	198	N /4	NA				
	7 ::	M /2	1/17		112				
	_7I	Tsecranates	("DK"	NP	N. P				

7.06 continued below

[[]_] Mark (X) this box if you attach a continuation sheet.

SECTION 8	RESIDUAL TREATMENT	GENERATION,	CHARACTERIZATION,	TRANSPORTATION.	AND
	MANAGEMENT				

General Instructions:

For questions 8.04-8.06, provide a separate response for each residual treatment block for diagram provided in question 8.01, 8.02 or 8.03. Identify the process type from which the information is extracted.

For questions 8.05-8.33, the Stream Identification Codes are those process streams lister in either the Section 7 or Section 8 block flow diagrams which contain residuals for each applicable waste management method.

For questions 8.07-8.33, if residuals are combined before they are handled, list those Stream Identification Codes on the same line.

Questions 8.09-8.33 refer to the waste management activities involving the residuals identified in either the Section 7 or Section 8 block flow diagrams. Not all Stream Identification Codes used in the sample answers (e.g., for the incinerator questions) has corresponding process streams identified in the block flow diagram(s). These Stream Identification codes are for illustrative purposes only.

For questions 8.11-8.33, if you have provided the information requested on one of the EP Office of Solid Waste surveys listed below within the three years prior to your reporting year, you may submit a copy or reasonable facsimile in lieu of answering those questions which the survey addresses. The applicable surveys are: (1) Hazardous Waste Treatment, Storage, Disposal, and Recycling Survey; (2) Hazardous Waste Generator Survey; or (3) Subtitle D Industrial Facility Mail Survey.

[_]	Mark (X)	this	box	if yo	ou attach	a	continuation	sheet.	,	

8.05 CBI	process	type, photo	oconv this a	am identified atment block f uestion and co ons for furthe	nov diagram is	provided for	more than
	Process	type	<u>Enc</u>	apsulating l	Pottina		
	a.	b.	с.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous	Physical State of Residual ²	Knovn Compounds ³	Concentra- tions (% or ppm) 1.5.6	Other Expected Compounds	Estimate Concen- trations (% or ppm
	<u>7c</u> -	H.RT.	<u> </u>	2,4-TOI	748/6	("U.K.")	("), Z !!
				2.6-TDI	18%	("U K'.")	Cox
	and the state of t	and the second s					
	70=	And the state of t	CL-				the state of the state of
						- succession of the first of th	NE
 j co	ntinued	below					

8.05	(c	on	τ	i	n	u	e	d)
------	---	---	----	---	---	---	---	---	---	---

8.05

For each additive package introduced into a process stream, specify the compound that are present in each additive package, and the concentration of each compone Assign an additive package number to each additive package and list this number column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

1	NA			(% or ppm)
2	NA			
2	(NA)		•	
2				
	•	<u> </u>	•	
			•	
		Ţ,	•	
3			•	
			-	*
			-	· · · · · · · · · · · · · · · · · · ·
4			-	
			-	
			-	
5			-	•
			-	
			_	
			_	

a.	type	<u>En</u>	<u>cadstila:</u> d	ting/Potting		
Stream ID Code	Vaste Description Code	Management Method Code ²	Residual Quantities _(kg/yr)	Management of Residual (%) On-Site Off-Site	f. Costs for Off-Site Management	Ch Ma
70	B67/B69	15T	.237	100°/ ₆	(per kg)	
70_	BUTLENG	1sT	("U K.")	100%	("U.K.")	_
<u>"/E_</u>	R +,2	15T	<u>("012")</u>	100%	("O.Z.")	_
	•					
Use the	codes provid	led in Exhib	oit 8-1 to de	esignate the vaste esignate the manage	descriptions	

EXHIBIT 8-2. (Refers to question 8.06(c))

MANAGEMENT METHODS

	in Evilopii Ett		
MI.	Discharge to publicly owned	Peco	very of solvents and liquid organics
71.	vastevater treatment vorks	for	tense
ыэ.	Discharge to surface water under		Fractionation
	NPDES		Batch still distillation
··•	Discharge to off-site, privately	100	Solvent extraction
	ovned vastevater treatment works	CB	Thin-film evaporation
w/	Scrubber: a) caustic; b) vater;	5SR	
	c) other	65R	
W5 .	· Vent to: a) atmosphere; b) flare;		Dessication
	c) other (specify)		Other solvent recovery
46 -	Other (specify)	031	other sorvent recovery
	· other (specify)	Reco	very of metals
TREA	ATHENT AND RECYCLING		Activated carbon (for metals
		•	recovery)
Inci	neration/thermal treatment	2MR	Electrodialysis (for metals
	Liquid injection		recovery)
	Rotary or rocking kiln	3MR	Electrolytic metal recovery
31	Rotary kiln with a liquid injection	4HR	Ion exchange (for metals recovery:
	unit	SHR	
4I	Tvo stage		LECOAGLA)
	Fixed hearth	6MR	Solvent extraction (for metals
	Multiple hearth	0.11.	recovery)
	Fluidized bed	7MR	• •
_	Infrared	71120	recovery)
	Fume/vapor	SMB	Other metals recovery
101	Pyrolytic destructor	J.I.K	other metals recovery
111	Other incineration/thermal	Vest	evater Treatment
	treatment		r each vastevater treatment type
			listed below (1VT - 66VT) specify
Reus	e as fuel		a) tank; or b) surface impoundment
1RF	Cement kiln		(i.e., 63VTa)
	Aggregate kiln		(110)
	Asphalt kiln	Equa	lization
	Other kiln	IVT	Equalization
	Blast furnace		
	Sulfur recovery furnace	Cyan	ide oxidation
7RF	Smelting, melting, or refining		Alkaline chlorination
	furnace	3VT	
8RF	Coke oven	4VT	
	Other industrial furnace	-	Other cyanide oxidation
10RF	Industrial boiler	•	· ·
	Utility boiler	Gene	ral oxidation (including
	Process heater	diei	nfection)
	Other reuse as fuel unit		Chlorination
		7 VT	Ozonation
Pue!	Blending	SVT	
	Fuel blending	9VI	Other general oxidation
•••	· · · · · · · · · · · · · · · · · · ·	741	Other Seneral Oxidation
Solid	dification	Chee	ical precipitation1
15	Cement or cement/silicate processes		Lime
25	Possolanic processes		Sodium hydroxide
35	Asphaltic processes		Soda ash
45	Thermoplastic techniques		Sulfide
55	Organic polymer techniques		
6S	Jacketing (macro-encapsulation)	TAAT	Other chemical precipitation
7 5	Other solidification	Chac	mium reduction
, 5	Acuse SATISTICATION		Sodium bisulfite
			Sulfur dioxide
		1041	SATTAL ATANTAE

(<u> </u>)		Ch	Combustion Chamber Temperature (°C)		tion of erature	Residence Time In Combustion Chamber (seconds		
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Second	
	1		* <u> </u>				3000110	
	2							
	3		· · · · · · · · · · · · · · · · · · ·					
	Indicate by circl Yes	one opp	of Solid Waste	mse.	been submitt		of respon	
	No	• • • • • • • • • • • • • • • • • • • •	•••••••••••		•••••••••••	••••••	• • • • • • • • • • • • • • • • • • • •	
<u></u>	Complete the formation of the contract of the			lution	(by capacity in your proce) incinerate ss block or Types Emissions Availa	residua] of Data	
-	1			·				
	2							
_	3				· <u></u>			
	,	e me appro	f Solid Waste opriate respon	156.				
	Yes		• • • • • • • • • • • • • • • • • • • •					
		•••••••	•••••••••••	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • •	

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

CBI	element the year in which you be	to indicate whether your company maintains records hourly and salaried workers. Specify for each dat began maintaining records and the number of years the maintained. (Refer to the instructions for furt	a
<u>i_</u> ;	copiesation and all exemple.)		

Data Element	Data are Ma Hourly Workers	intained for Salaried Vorkers	Data Collection	Number of Years Records
Date of hire	V	V		Are Maintaine
	- X	$\frac{\lambda}{X}$	1949	Permanent Permanent
Work history of individual before employment at your facility		X	1949	Permanent
Sex	X	X	1949	Permanent
Race	X	X	1949	Permanen +
Job titles	. <u>X</u>	X	1949	Permanent
Start date for each job title	<u>X</u>	X	1949	Permanent
End date for each job title	<u>X</u>	X	1949	Permanent
Work area industrial hygiene monitoring data	X	X	("٧,٢,")	Permanent
Personal employee monitoring data	<u>X</u>	X	("U.K.")	Permanent
Employee medical history	_X_	X	1949	Permanent
Employee smoking history	×	X	1980	Permanent
Accident history	X	X	1949	Permanent
Retirement date		X	1949	Permanent
Termination date	X	X	1949.	Permanent
Vital status of retirees	X	<u>X</u>	("U.K.")	N.A.
Cause of death data	X	X	1949	Permanent
•			il .	

^[] Mark (X) this box if you attach a continuation sheet.

03 <u>I</u>	Provide a descripti encompasses vorkers listed substance.	ve job title for each labor category at your facility that who may potentially come in contact with or be exposed to the
<u>-</u> -]]		
_	Labor Category	Descriptive lab Tiel
=	A	Potting Operator
	В	Motting Operator
	С	
	D	
	E	
	F	
	G	
	Н	
	I	
	J	
	·	

9.05 CBI	additional areas nor	vork area(s) shown in question 9.04 that encompass workers in contact with or be exposed to the listed substance. Add shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
(_)	Process type	Encapsulating / Potting
	Work Area ID	Description of Work Areas and Worker Activities
	1	Hooded Work Station (Mix & Pour)
	2	Hooded Work Station (Mix & Pour) Vented Oven (Bake)
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
5	••••••••••••••••••••••••••••••••••••••	
		•
,		

_1	Process typ	e	Encapsulati	ing /	Potting		
	Work area .	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••		2	
	Labor Category	Number of Workers Exposed	Mode of Exposu (e.g., dir skin conta	ect	Physical State of Listed Substance	Average Length of Exposure Per Day	Number Days p Year Expos
	A	5	Skin/Inhal	ation	OL	B, C	("U.K.
							•
							-
					- 1		
		***************************************				<u> </u>	
	GC = Gas (tempe: GU = Gas (tempe:	f exposure:	at ambient ssure;	SY = AL = OL =	. 10	urry id id iquid ses. e.g.,	bstance
2	Use the fol:	loving codes t	o designate ave	rage l	ength of expo	sure per day:	
	exceedi	tes or less than 15 minut ng 1 hour than one hour		E = (Greater than exceeding 4 h Greater than exceeding 8 h	ours 4 hours, but	

.07	Weighted Average (T	gory represented in question 9.06 WA) exposure levels and the 15-mittion and complete it separately f	nute peak exposure levels.
<u>II</u>		Encapeulating / Pit	tina
_1		. <u>Encapsulating / Pot</u>	1
	Work area		
	Labor Category	8-hour TVA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Le (ppm, mg/m², other-specif
	${A}$	("U.K.")	("UK")
			
			•
	-		
			•
			•

<u>31</u>	If you monitor work	A)					in the same of the
	Sample/Test	Vork Area ID	Testing Frequency (per year)	Number of Samples (per test)	Vho		Number o Years Reco Maintaine
	Personal breathing zone						
	General work area (air)						
	Wipe samples						
	Adhesive patches						
	Blood samples						
	Urine samples						
	Respiratory samples						
	Allergy tests						
	Other (specify)	-					
	Other (specify)						
	Other (specify)			•			***************************************
							4
	Use the following contact A = Plant industrial B = Insurance carrie C = OSHA consultant D = Other (specify)	hygienis		takes the	monitorin	g samples:	

	Mark	(X)	this	bex	if	you	attach	a	continuation	sheet
--	------	-----	------	-----	----	-----	--------	---	--------------	-------

BI		(NP)	Frequency
_1	Test Description		(weekly, monthly, yearly, etc.)
			
-			
		,	
			-
			•
			•
•			

9.12 CBI	Describe the engineering conto the listed substance. Plearness type and work area.	ntrols that yo hotocopy this	u use to reduce o question and comp	r eliminate wor lete it separat	ker exposely for e
	Process type	Encap:	sulating / Po-	Hing 7	
	Engineering Controls	Used (Y/N)	Year <u>Installed</u>	Upgraded (Y/N)	
	Ventilation: Local exhaust	<u> </u>	("UK.")	N	NA
	General dilution Other (specify)	<u> </u>	("UK.")	/V	NA
	Vessel emission controls		——————————————————————————————————————		
	Mechanical loading or packaging equipment	·V			

[] Mark (X) this box if you attach a continuation sheet.

[_]	Process type Encapsulating	/ Poth	
	Vork area	······ _	1
	Equipment or Process Modification		Reduction in Worker Exposure Per Year (%
	NA		
		<u>.</u>	
			•
			·
		e.	
			•
			· .
•			
		•1	

Frocess type Equipment Types Equipment Types Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Wear or Use (Y/N) Respirators	9.14 CBI		conal protective and safety equ in order to reduce or elimina copy this question and complet		
Wear or Use (Y/N) Respirators	Wear or Use (Y/N) Respirators	[_]	Process type	<u>Encapsulating</u>	Potting	
Equipment Types (Y/N) Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Equipment Types (Y/N) Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)			3	•••••••••••••••••••••••••••••••••••••••	Į.
Equipment Types (Y/N) Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Equipment Types (Y/N) Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)					
Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)			Equipment Types	Use	
Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)			Respirators	$\overline{}$	
Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Coveralls Bib aprons Chemical-resistant gloves Other (specify)			Safety goggles/glasses	<u> </u>	
Bib aprons Chemical-resistant gloves Other (specify)	Bib aprons Chemical-resistant gloves Other (specify)			Face shields		
Chemical-resistant gloves Other (specify)	Chemical-resistant gloves Other (specify)			Coveralls	<i>N</i>	•
Other (specify)	Other (specify)			Bib aprons	<i>N</i>	
				Chemical-resistant gloves	<u> </u>	
				Other (specify)		
					· · ·	
					: 	

[<u> </u>	ark (X)	this b	ox if	you	attach	a	continuation	sheet.
------------	---------	--------	-------	-----	--------	---	--------------	--------

Describe all of the work eliminate worker exposure authorized workers, mark monitoring practices, proquestion and complete it	to the listed sub areas with warning vide worker trains	ostance (e.g g signs, inst ing programs	., restrict en ure worker den . etc.). Phon	ntrance only to tection and
Process type	Encapsulati	na / Pot	ting	
Work area				1
1) Employee Follo	ws Written Pi	rocedure		
(i) Employee Follo(ii) Local Ventilati	ion			
		,		
20 Indicate (X) how often you leaks or spills of the lis separately for each proces Process type	sted substance. P ss type and vork a	hotocopy thi	is question an	ean up routine d complete it
Process type Work area	Encapsulating Less Than	hotocopy thi rea. 1-2 Times	1 3-4 Times	More Than 4
leaks or spills of the lisseparately for each process Process type Work area	Encapsulating Less Than Once Per Day	hotocopy thi rea. Depthing	s question an	d complete it
leaks or spills of the lisseparately for each process Process type Work area	Encapsulating Less Than	hotocopy thi rea. 1-2 Times	1 3-4 Times	More Than 4
leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping	Less Than Once Per Day	hotocopy thi rea. 1-2 Times	1 3-4 Times	More Than 4
leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming	Less Than Once Per Day NA	hotocopy thi rea. 1-2 Times	1 3-4 Times	More Than 4
leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming Vacuuming Vater flushing of floors	Less Than Once Per Day NA	hotocopy thi rea. 1-2 Times	1 3-4 Times	More Than 4
leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming Vacuuming Vater flushing of floors Other (specify)	Less Than Once Per Day NA	hotocopy thi rea. 1-2 Times	1 3-4 Times	More Than 4
leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming Vacuuming Vater flushing of floors Other (specify)	Less Than Once Per Day NA	hotocopy thi rea. 1-2 Times	1 3-4 Times	More Than 4
leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming Vacuuming Vater flushing of floors Other (specify)	Less Than Once Per Day NA	hotocopy thi rea. 1-2 Times	1 3-4 Times	More Than 4

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••••••••••••••••••••••••••••••••••••••
ed?
plan that addresses the listed
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ed? MSDS In Foremans Office.
local government response organizatio
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••••••••••••••
ty at your facility? Circle the
• • • • • • • • • • • • • • • • • • • •
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	Specify the exact location of your is located) in terms of latitude a (UTM) coordinates.	nd longitude or Uni	versal Transvers	se Mercader
	Latitude	•••••	<u>42 · 0</u>	16. 45
	Longitude	•••••	<u>75 ° 5</u>	<u>e</u> . 20
	UTM coordinates Zone	UK, North	ing, Ea	sting
10.03	If you monitor meteorological condithe following information.	itions in the vicin	ity of your faci	lity, provi
	Average annual precipitation			inches/
	Predominant wind direction			
10.04	Indicate the depth to groundwater b	elow your facility.		
		• ======,	•	
0.05	For each on-site activity listed, is listed substance to the environment	ndicate (V/N/NA) al	l routine releases	meters ses of the
10.05 EBI		ndicate (Y/N/NA) al	Il routine releases for a ronmental Release Vater	ses of the a definition
10.05 CBI	For each on-site activity listed, i listed substance to the environment Y. N, and NA.)	ndicate (Y/N/NA) al (Refer to the ir	structions for a	ses of the a definition
10.05 CBI	For each on-site activity listed, i listed substance to the environment Y. N., and NA.) On-Site Activity	ndicate (Y/N/NA) al (Refer to the in Envi	ronmental Releas	ses of the a definition se
10.05 CBI	For each on-site activity listed, is listed substance to the environment Y. N, and NA.) On-Site Activity Manufacturing	ndicate (Y/N/NA) al (Refer to the in Envi	ronmental Release	ses of the a definition se
10.05 <u>BI</u>	For each on-site activity listed, is listed substance to the environment Y. N, and NA.) On-Site Activity Manufacturing Importing	ndicate (Y/N/NA) al (Refer to the in Envi	ronmental Release Vater N/2 N/2	ses of the a definition se Land
10.05 CBI I	For each on-site activity listed, is listed substance to the environment Y. N, and NA.) On-Site Activity Manufacturing Importing Processing	endicate (Y/N/NA) all. (Refer to the in Envi	ronmental Release Vater N/2 N/2	ses of the a definition se Land VA MA //
10.05 CBI	For each on-site activity listed, in listed substance to the environment Y. N., and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used	endicate (Y/N/NA) allowing (Refer to the in Envi	ronmental Release Vater N/2 N/2 /// /// ///	ses of the a definition se Land V/ // // // //
10.05 CBI I	For each on-site activity listed, is listed substance to the environment Y. N., and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage	ndicate (Y/N/NA) all. (Refer to the in Air NA NA Y NA	ronmental Release Vater N/2 N/2 N/2 N/2 N/2 N/2 N/2 N/	ses of the a definition se Land VA NA NA 11 11 11 11 11 11 11 1
10.05 CBI I	For each on-site activity listed, is listed substance to the environment Y. N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	ndicate (Y/N/NA) al. (Refer to the in Air NA	ronmental Release Vater N/2 N/2 N/2 N/2 N/2 N/2 N/2 N/	ses of the a definition se Land V/- //- //- //- //- //- //- //
10.05 CBI	For each on-site activity listed, is listed substance to the environment Y. N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	ndicate (Y/N/NA) al. (Refer to the in Air NA	ronmental Release Vater N/2 N/2 N/2 N/2 N/2 N/2 N/2 N/	ses of the a definition se Land V/- //- //- //- //- //- //- //

Average Baission Bate Frequency Duration (May/day) (days/yr) (min/day) Factor (May/min) (events/yr) (min/devent) (min/day) (m	Point Source State Ode Ode State Ode Ode State Ode Ode State Ode Ode Ode State Ode Ode Ode Ode Ode Ode Ode O		Duration (min/day) (min/da	ion Buission Buission Buission Factor A Factor at the point of reat the point of rea	Haximan Haximan Haximan Buission Brission Brission Brission Brission Brission Brission Rate Frequency Duration Brission Rate Frequency Duration Brission (Ag/min) (evants/yr) (and the brission	
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1	PA	RT	C	FI	ICT	TIT	JE.	EMI	SST	ONS

10.13	types listed which are exp according to the specified the component. Do this fo residual treatment block f not exposed to the listed	veight perc r each proce low diagram()	listed suent of the stype is some some of the stype is some some of the stype is some some stype in the stype is the stype of the stype	de listed dentified not includ	nd which substance in your e equipme	are in se passing process b ent types	rvice through lock or that are
	process, give an overall persposed to the listed subs	ercentage or	TIME DAT	· vosr the	* * * * * * * * * * * * * * * * * * * *		
CBI	for each process type.		ocopy thi	s questio	n and com	brece 10	separa te
[_]	Process type						
	Percentage of time per year type	that the li	isted sub	stance is	exposed	to this p	rocess
		Number	of Compo	nents in d Substan	Service b	y Veight :	Percent am
	Equipment Type	Less than 5%	5-10%				Greate
	Pump seals ¹	CHAIT JA	3-10%	11-25%	<u>26-75%</u>	76-99%	than 9
	Packed						
	Mechanical						
	Double mechanical ²						
	Compressor seals ¹						
	Flanges						
	Valves (N/A)						
	Gas ³						
	Liquid						
. 1	Pressure relief devices ⁴ (Gas or vapor only)						
	Sample connections						
	Gas						
	Liquid						
C	pen-ended lines ⁵ (e.g., purge, vent)						
	Gas						
	Liquid						
1	List the number of pump and compressors	compressor	seals, r	ather tha	in the num	mber of pu	imps or
10.13	continued on next page						
[<u>]</u>] Ha	rk (X) this box if you atta	ch a continu	ation sh	eet.		W	

CBI	procedures. Photoco		•	NA	,	process.
[-]	Process type					
· '	1100000 1,70					
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device			Repair Complet (days af initiate
	Pump seals					
	Packed					
	Mechanical					
	Double mechanical					
	Compressor seals		,			
	Flanges					
	Valves					
	Gas				•	
	Liquid					
	Pressure relief devices (gas or vapor only)		-			
	Sample connections					
	Gas					
	Liquid _					
	Open-ended lines					
	Gas					
	Liquid					
	1 Use the following composition of POVA = Portable organists FPM = Fixed point mode 0 = Other (specify)	nic vapor analyze:		vice:		
•						

10.23 Indicate the date and time when the release occurred and when the release ceased c was stopped. If there were more than six releases, attach a continuation sheet and list all releases.

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pr
1				
2		·		
3				
4				
5				
6				

10.24 Specify the weather conditions at the time of each release.

Release	Vind Speed (km/hr)	Vind Direction	Humidity (%)	Temperature (°C)	Precipitati (Y/N)
2			/		
3					-
4					
5					-
6					•

[] Mark (X) this box if you attach a continuation sheet.